

VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Specification:

Please replace the abstract of the disclosure with the following.

**MICROELECTROMECHANICAL DEVICE HAVING SINGLE CRYSTALLINE
COMPONENTS AND METALLIC COMPONENTS
[AND ASSOCIATED FABRICATION METHODS]**

ABSTRACT OF THE DISCLOSURE

A microelectromechanical (MEMS) device is provided that includes a microelectronic substrate, a microactuator disposed on the substrate and formed of a single crystalline material, and at least one metallic structure disposed on the substrate adjacent the microactuator [such that the metallic structure is on substantially the same plane as the microactuator and is actuated thereby. For example, the MEMS device may be a microrelay. As such, the microrelay may include a pair of metallic structures that are controllably brought into contact by selective actuation of the microactuator.] While the MEMS device can include various microactuators, one embodiment of the microactuator is a thermally actuated microactuator [which advantageously includes] that may include a pair of spaced apart supports disposed on the substrate and at least one arched beam extending therebetween. [By heating the at least one arched beam of the microactuator, the arched beams will further arch. In an alternate embodiment, the microactuator is an electrostatic microactuator which includes a stationary stator and a movable shuttle. Imposing an electrical bias between the stator and the shuttle causes the shuttle to move with respect to the stator.] Thus, on actuation, the microactuator moves between a first position in which the microactuator is spaced apart from the at least one metallic structure to a second position in which the microactuator operably engages the at least one metallic structure. [Several advantageous methods for fabricating a MEMS device having both single crystal components and metallic components are also provided.]

In re: Dhuler
Serial No: 09/891,700
Filed: June 26, 2001
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Please replace the paragraph on page 1 following the title with the following.

--RELATED APPLICATIONS

The present application is a continuation of United States Patent Application Serial No. 09/383,053, filed August 25, 1999 and entitled **MICROELECTROMECHANICAL DEVICE HAVING SINGLE CRYSTALLINE COMPONENTS AND METALLIC COMPONENTS, now U.S. Patent No. 6,291,922.**--

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